



ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.
ODISHA POWER TRANSMISSION CORPORATION LTD.

(A Government of Odisha Undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR – 751022,

OFFICE OF THE GENERAL MANAGER (Electrical)

EHT (O&M) Circle, Berhampur.

At-Bidyutpuri Colony, PO- Engineering school

TENDER SPECIFICATION NO- BAM-11/2023-24

**SUPPLY OF ONE NO. OF MAIN ACDB PANEL FOR CONTROL ROOM OF 220/132/33kV
GRID SUBSTATION, NARENDRAPUR**

PART-I

SECTION-I- INSTRUCTION TO TENDERERS

SECTION-II- GENERAL TERMS & CONDITIONS OF CONTRACT

SECTION-III- SCHEDULE OF QUANTITY

SECTION-IV- TECHNICAL SPECIFICATION AND OTHER DATASHEETS.

SECTION-V - LIST OF ANNEXURES

PART-II

PRICE BID & TECHNO COMMERCIAL BID (IN EXCEL FORMAT)



ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.
ODISHA POWER TRANSMISSION CORPORATION LTD.

(A Government of Odisha Undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR – 751022,

OFFICE OF THE GENERAL MANAGER (Electrical)

EHT (O&M) Circle, Berhampur

At: Bidyutpuri Colony, P.O: Engineering School Road, Berhampur-760010.

E-mail-ehm.cle.bam@optcl.co.in

E-TENDER NOTICE NO: BAM-11/2023-24

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD General Manager, EHT (O&M) Circle, Berhampur invites Tender from Reputed manufacturers/ Experienced suppliers/ Authorized Dealers/ Distributors/ OPTCL registered Vendors fulfilling the eligibility criteria of possessing valid I.T. Pan Card/ GST registration certificate, valid Authorization / Dealership Certificate etc. in two part bidding system for **Supply of one No. of Main ACDB Panel for control room of 220/132/33 kv Grid Substation, Narendrapur.**

The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL and must possess Class 3 Digital Signature Certificate. Complete set of bidding documents are available at www.tenderwizard.com/OPTCL from **25.10.2023 (10.31 Hrs) up to 08.11.2023 (12.31 Hrs).** Interested bidders may visit OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL for detail specification.

N.B:- All subsequent addendums/corrigendum to the tender shall be hosted in the OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL only.

Sd/-

GENERAL MANAGER
EHT (O&M) CIRCLE, BERHAMPUR



ଓଡ଼ିଶା ବିଦ୍ୟୁତ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ଼.

ODISHA POWER TRANSMISSION CORPORATION LTD.

(A Government of Odisha Undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022,

OFFICE OF THE GENERAL MANAGER (Electrical)

EHT (O&M) CIRCLE, BERHAMPUR

NOTICE INVITING TENDER

E-TENDER NOTICE NO: BAM-11/2023-24

For and on behalf of the **ODISHA POWER TRANSMISSION CORPORATION LTD.**, the undersigned invites bids from recognized, registered, well established and financially sound bidders under **two-part bidding** system in **e-tendering mode** only for “*Supply of one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur*” as per the following details:

II) Tender Specification No:	<u>BAM-11/2023-24</u>
III) <u>Important dates</u>	
Request for online tender documents:	From: dt: 25.10.2023 (10.30 Hrs) To: dt: 08.11.2023 (12.30 Hrs)
Issue of online tender documents:	From: dt: 25.10.2023 (10:31 Hrs) To: dt: 08.11.2023 (12.31 Hrs)
Last date of submission of online tender:	Up to: dt: 09.11.2023 (12.30 Hrs)
Date of opening of Techno-commercial Bid:	On: dt: 09.11.2023 (15.30 Hrs Onwards)
Date of opening of Price Bid:	To be intimated after finalization of Techno-commercial bid.
IV) Estimated Value of work:	Rs 15,58,865/- (Inclusive of GST @ 18%)
V) Cost of Tender Specification Document:	Rs 7,080/- (Incl. GST@18%) DD only
VI) Earnest Money Deposit:	15,590/- DD Only
VII) Tender Processing Fees:	Rs 2,053/-

All DDs should be in favour of General Manager(Elect), EHT (O&M) Circle, Berhampur payable at Berhampur

The bidders can view the tender documents from website free of cost. The bidders who want to participate in the tender shall have to pay **Rs.7080/- (Rupees Seven thousand and eighty only) non-refundable including GST @ 18%** towards the cost of tender document, in the form of

Demand draft only, drawn in favour of **EHT (O&M) Circle, OPTCL, Berhampur, Payable at Berhampur** and the same is to be submitted to the office of the undersigned on or before the last date & time of submission of tender.

In case of the bidders from **Odisha based micro, small enterprises (MSEs), and start-up enterprises registered under District Industries Centres of Odisha, OSIC and/or NSIC, the tender paper shall be provided free of cost**, provided the valid MSME UDYAM and NSIC Registration certificate as per “*Required Proof of Documents under Technical eligibility criteria 2.II*” are submitted, failing which the tender shall be rejected.

The bidders shall have to submit a non-refundable amount of Rs 2,053/- (Rupees two thousand and fifty three only) towards the tender processing fee through e-payment gate way.

(NOTE: For deposit of tender processing fee to K.S.E.D.C. Ltd. Bangalore, the bidder can use various modes of e-payment facility available through Tender wizard Portal, i.e. by Credit Card, Debit Card and Net Banking)

The payment acknowledgement slip should be submitted along with the Demand Drafts of the Tender cost at the office of the undersigned on or before the last date & time of submission of tender. The bidders shall scan the Demand Draft towards EMD, Tender paper Cost and acknowledgement slip for tender processing fee and upload the same in the prescribed form in **.PDF** format in addition to sending the original as stated above.

The prospective bidders are advised to register their user ID, Password, company ID from website www.tenderwizard.com/OPTCL by clicking on hyper link “Register Me”.

Any clarifications regarding the scope of work and technical features of the tender can be had from the undersigned during office hours.

Sd/-

GENERAL MANAGER (Elec)
EHT (O&M) CIRCLE, BERHAMPUR

PART-I
SECTION-I
INSTRUCTIONS TO TENDERERS

<u>Clause No</u>	<u>Title</u>	<u>Page No</u>
1	Submission of Bids.	
2	Division of Specification.	
3	Opening of Bids.	
4		
5	Eligibility for submission of bids.	
6	Purchaser's right to accept/reject bids.	
7	Mode of submission of tenders.	
8	EMD	
9	Validity of the bids.	
10	Tenderers to be fully conversant with the clauses of the Specification.	
11	e-Reverse Auction process	
12	Documents to accompany Bids	
13	Conditional Offer.	
14	General to the Tenderers	
15	Special Instruction to the Bidders	
16	Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site	

PART-I

SECTION-I

INSTRUCTIONS TO TENDERERS

1. Submission of Bids: -

The bidder shall submit the bid in Electronic Mode only i.e www.tenderwizard.com/OPTCL. The bidder must ensure that the bids are received in the specified website of the OPTCL by the date and time indicated in the Tender notice. Bids submitted by telex/telegram will not be accepted. No request to collect the Bids in physical form will be entertained by the OPTCL.

OPTCL reserves the right to reject any bid, which is not submitted according to the instruction, stipulated above. The participants to the tender should be registered under GST.

1. For all the users it is mandatory to procure the Class 3 Digital Signatures.

2. Manufacturers/ Dealers/ Bidders / Suppliers are requested to follow the below steps for Registration:
 - a. Click "Register", fill the online registration form.
 - b. Pay the amount of **Rs. 2360/-** through **E-payment gateway**.
 - c. This registration is valid for one year.
 - d. Send the acknowledgment copy for verification.
 - e. As soon as the verification is being done the e-tender user id will be enabled.
3. After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs.
4. If any Bidder wants to participate in the tender, they will have to follow the instructions given below:
 - a. Insert the PKI (which consist of your Digital Signature Certificate – Class 3) in your System. (Note: Make sure that necessary software of PKI be installed in your system).
 - b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
 - c. Go to Start > Programs > Internet Explorer.
 - d. Type www.tenderwizard.com/OPTCL in the address bar, to access the Login Screen.
 - e. Enter e-tender User Id and Password, click on "Go".
 - f. Click on "Click here to login" for selecting the Digital Signature Certificate.
 - Select the Certificate and enter DSC Password.
 - Re-enter the e-Procurement User Id Password
5. To make a request for Tender Document, Bidders will have to follow below mentioned steps.
 - Click "Un Applied" to view / apply for new tenders.
 - Click on Request icon for online request.
 - Enter the required fields including details of D.D for tender Processing fee.
6. After making the request Bidders will receive the Bid Documents which can be checked and downloaded by following the below steps:
 - Click to view the tender documents which are received by the user.
 - Tender document screen appears.
 - Click "Click here to download" to download the documents.
7. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
 - Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
 - Note down / take a print of bid control number once it displayed on the screen
8. Tender Opening event can be viewed online.
9. Competitors bid sheets are available in the website for all.
10. **For any e-tendering assistant contact help desk number mentioned below.**

- Bangalore– 080- 40482000.
- Mr. Satamanyu– mob: 09937140591

2. Division of Specification.

The specification is mainly divided into two parts viz. Part-I & Part-II.

Part-I Consists of

- SECTION-I- INSTRUCTION TO TENDERERS.
- SECTION-II- GENERAL TERMS & CONDITIONS OF CONTRACT
- SECTION-III- SCHEDULE OF QUANTITY
- SECTION-IV- TECHNICAL SPECIFICATION AND OTHER DATASHEETS
- SECTION-V- LIST OF ANNEXURES

Part-II Consists of

- 1) PRICEBID & TECHNO COMMERCIAL BID (In excel sheet Format)

3. Opening of Bids.

a. The tender shall be opened on the date and time fixed by the OPTCL for opening of bids in Electronic mode in presence of such of the Tenderers or their authorized representatives [limited to one person only] on the due date of opening of tender who opt remain present. After scrutiny of the technical particulars and other commercial terms, clarifications, if required, shall be sought for from the bidders. The Tenderers shall be allowed 15 days' time for such activity.

b. The price bids of the technically and otherwise acceptable bids shall only be evaluated as per the norms applicable in terms of this Specification.

4. Eligibility for submission of bids.

Only those bidders who have deposited the cost of tender specification are eligible to participate in the tender. They should submit the money receipt / transaction statement as a proof of such payment. The local Micro and small Enterprises (MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC can participate without payment of the cost of tender specification.

5. Purchaser's right to accept/reject bids:

The purchaser reserves the right to reject any or all the tenders without assigning any reasons what so ever if it is in the interest of OPTCL, under the existing circumstances

6. Mode of submission of Tenders.

[A] Tenders shall be submitted in electronic mode only. (www.tenderwizard.com/OPTCL)

[B] Telegraphic or FAX tenders shall not be accepted under any circumstances.

7. EMD

Tenderers are required to submit earnest money (EMD) in shape of DD only in favour of General Manager(Elect), EHT (O&M) Circle, Berhampur payable at Berhampur towards participation in the tender.

If the tenderer withdraws or modifies the bids during the tender validity period or fails to execute formal contract agreement within the given timeline or commit any breach of Tender Conditions/ Contract which attracts penal action of **forfeiture of EMD**.

8. Validity of the Bids: -

The tenders should be kept valid for a period of **180** days from the date of opening of the tender, failing which the tenders will be rejected.

9. Tenderers to be fully conversant with the clauses of the Specification:

Tenderers are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tenders. In case of doubt regarding the meaning of any clause, the tenderer may seek clarification in writing from the **General Manager (Elec), EHT (O&M) Circle, Berhampur** This however does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.

10. e-Reverse Auction process shall be resorted to in the tender as follows:

STRATEGY FOR E-REVERSE AUCTION	
1	Bidders are required to go through the guide lines given below and submit their acceptance to the same.
2	e-Reverse Auction (RA) will be conducted in e-tender portal of OPTCL on specified date and time, while bidders shall quote from their own offices/places of their choice. Internet connectivity shall be ensured by the respective agencies/bidders themselves.
3	Demonstration/ training (if not trained earlier) of bidder's nominated person(s), shall be done by KEONICS to explain all the rules related to e-Reverse Auction/ Business Rule document to be adopted.
4	The strategy to be used for reverse auction shall be "DYNAMIC TEMPLATE BIDDING"
Procedure for electronic Reverse Auctioning (e-RA):	
5	<p>a. The e-RA shall be conducted on www.tenderwizard.com/OPTCL only.</p> <p>b. Bidder has to submit letter towards agreement to the Process related Terms & Conditions for e-Reverse Auction, as per (Reverse Auction Process Compliance Form at Annexure-IA). In non-receipt of the same, vendors will not be allowed to participate in e-RA.</p> <p>c. e-RA shall be carried out after opening of Price bids and completion of Price bid evaluation, which will be intimated only to the techno-commercially qualified bidders by OPTCL as per procedure given below.</p> <p>d. OPTCL reserves the right to conduct e-RA and it is obligatory on part of bidder(s) invited to participate in e-RA process once they have responded to the techno-commercial bid.</p>
6	<p>Prior intimation/ Notice for RA invitation will be given to techno-commercially qualified bidders regarding the date & time of opening of the e-RA.</p> <p>The start bid price (SBP) for e-Reverse Auction of each bidder under a particular package shall be the L1 evaluated price for the subject package including Taxes & Duties for the total scope for subject Package. Taking the above discovered L1 price as the upper limit e-RA will be conducted to determine the lowest possible price.</p> <p>Reverse Auction will be conducted amongst first 50% of the technically qualified bidders arranged in order of prices from lowest to highest, as L1, L2, L3-----Ln, and L1 price will be discovered.</p> <p>Minimum of 3 bidders shall be eligible for e RA. (eg. If 4 bidders are financially evaluated then the L1, L2 and L3 bidders shall be eligible for e-RA). Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L1 to L4).</p> <p>However, in case only two bidders are found to be responsive, e-RA would be carried out with both the parties without any elimination. However, OPTCL reserves the right to invite the evaluated L1 bidder for negotiation without conducting the e-RA.</p> <p>In case of price submitted by any bidder is found to be abnormal, OPTCL reserves the right to reject the bid of the bidder(s) .</p> <p>Rank of bidders would be displayed as per the total cost to OPTCL, i.e including Taxes and Duties payable by OPTCL as per the provisions of the bidding document & after e-RA process is over.</p>
7	<p>Names of bidders/ vendors shall not be disclosed during the e-RA process. Names of bidders/ vendors shall be anonymously masked in the e-RA process.</p> <p>In case of RA, start/ reference price and step value of decrement shall be indicated to the bidders at the start of the auction. Any participating bidder can bid one or multiple step decrement lower than the prevailing lowest bid at that time. The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid value, last Bid Placed by him and time left for bidding.</p> <p>The step value of decrement in a package to be offered by bidder (the minimum amount of reduction in the total bid price including all taxes & duties during auction) , shall be kept at 0.15% of L1 bidder's final evaluated price (or) at approved amount as decided by OPTCL.</p> <p>Bidders can only quote any value lower than their previous quoted price. However, at no stage, increase in Price will be permissible.</p> <p>At any point during Reverse Auction, bidding Price field (Total price) shall remain enabled for the bidders. The total reverse auction period will be for one twenty (120) minutes. The initial auction period (1st slot) will be of thirty (30) minutes with provision of auto extension by (10) ten minutes</p>

	<p>from the schedule/ extended closing time, if any fresh lower bid is received in last ten minutes of initial auction period or extended auction period. Total/ maximum number of auto extension will be for 9 (nine) times after the 1st slot. After end of 120 minutes, the reverse auction process shall get closed automatically without any extension.</p> <p>(v) However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the period of e-reverse auction to avoid complication related with internet connectivity, network problem, system crash down, power failure etc.</p>
8	<p>After conclusion of e-Reverse Auction i.e (Closing Price in Reverse Auction will be taken as offered price by the L1 bidder), decrease in price of individual head of the template shall be considered proportionately on all individual line items of the respective head of the price schedule of the successful L1 bidder .</p> <p>Any bid received at the tender wizard server end subsequent to closure of the e-RA shall be summarily rejected and shall not be considered as a valid bid under whatsoever circumstances. For this purpose, tender wizard server log shall prevail.</p> <p>The bidder shall not involve himself or any of his representatives in price manipulation of any kind directly or indirectly by communicating with other bidders.</p> <p>During Reverse Auction, If no bid is received within the specified time, OPTCL, at its discretion, may decide to close the reverse auction process/ proceed with conventional mode of tendering [Evaluation of Part-II (price bid) submitted by bidders earlier].</p>
9	<p>Consequent upon completion of e-Reverse Auction, OPTCL's decision on award of contract shall be final and binding on the bidders.</p> <p>OPTCL shall be at liberty to call the L1 bidder for further process/ negotiation and also at liberty to cancel the e-reverse auction process/ re-tender at any time, without assigning any reason thereof. OPTCL can decide to reschedule or cancel any reverse auction: the bidders shall be informed accordingly.</p> <p>OPTCL/ Service Provider shall not have any liability to bidders for any interruption or delay in access to the e-Tender site/ Reverse Auction link irrespective of the cause.</p>

11. Documents to Accompany Bids.

Tenderers are required to submit tenders in the following manner:

- a) Declaration Form as per **Annexure-1** (duly signed) to be uploaded in *.pdf format.
- b) EMD in shape of DD (scanned copy is to be uploaded).
- c) Abstract of Terms & conditions in prescribed proforma as per **Annexure-2**. To be keyed in the bid sheets provided.
- d) Data on past experience as per the Specification. (Scanned copy to be uploaded).
- e) Proof of Manufacturer, Experienced Supplier, Authorized dealer, Distributor, OPTCL registered Vendors along with GST Registration and Clearance certificate. Permanent account number [PAN] of the firm is required under Income tax Act. (Scanned copy to be uploaded).
- f) Proof of valid registration as local MSE (In the state of Odisha)(if any).
- g) Any other document if required as per this tender specification is also to be uploaded.

12. Conditional Offer:

Conditional offer shall not be accepted.

13. General Instruction to the Tenderers : -

- i) The tenderer must get him registered in tender portal by paying an amount of **Rs. 2360/- through e-payment gate way**. This registration is valid for one year.
- ii) The tender paper cost (Form fee non refundable) for an amount of **Rs 7080/- to be deposited in shape of DD**.
- iii) The tender processing fee for an amount of **Rs 2,053/- (Non-refundable) is to be paid to KSEDC Limited, Bangalore through e-payment gateway**.
- iv) In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the Tenderer.

- v) For evaluation, the price mentioned in words shall be taken if there is any difference in figures and words in the price bid.
- vi) The price bids of the technically and otherwise acceptable bids shall only be evaluated.
- vii) Notice inviting tender shall form part of this specification.
- viii) It should be distinctly understood that the price bid and techno-commercial bid shall contain only details / documents relating to price and technical details, as mentioned herein above.
- ix) **All DDs should submit in a sealed cover envelope super scribing the Tender Notice No & Date of opening of tender. The said envelope is to be submitted in the office of the purchaser on or before the last date and time of submission of tender. Those who fails to submit DDs, Bid of the respective bidder will be rejected.**
- x) **The tenderers are advised to visit the site; assess the quantum of work involvement and make themselves acquainted with the site conditions before submission of tender.**

14. Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.

- a) The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier.
- b) OPTCL inspecting officer, on receipt of offer for inspection from the contractor/supplier, proceeds to the manufacturer works to witness the Type/Acceptance/Routine test.

Important:

It is hereby informed to all the bidders that the relevant clauses of the tender specification, pertaining to inspection and testing of equipment/materials, are hereby supplemented with following additional terms and conditions.

The expenses under the following heads, in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site, shall be borne by the contractor / supplier.

A. Hotel Accommodation:

- (i) Single room accommodation in 4 star hotel for the OPTCL inspecting officer of the rank of Assistant General Manager (Grade E-6) and above.
- (ii) Single room accommodation in 3 star hotel for the OPTCL inspecting officer of the rank below Assistant General Manager (Grade E-6).

N.B.: It is the responsibility of the Contractor/supplier/manufacturer to arrange the hotel accommodation matching with their inspection and testing schedule, so that the inspecting officer can check-in the hotel one day prior to the date of inspection and check out after the completion of the inspection, subject to availability of the return travel ticket. In case of extended duration of inspection or non-availability of the return travel ticket, Contractor/supplier/manufacturer shall arrange for the extended stay of the inspecting officer in the Hotel accordingly. In case there is no hotel with prescribed standard in and around the place of inspection, the contractor/ supplier/ manufacturer shall suggest alternative suitable arrangement at the time of offer for inspection, which is subjected to acceptability of OPTCL inspecting officer.

B. Journey of the inspecting officer:

- (i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the supplier/ manufacturer. Journey from the Head Quarters of the inspecting officer to the nearest Air Port by train (1st/1Ind A.C) & A/C Taxi then

by Air to the place of inspection/testing or to the nearest place of inspection/testing and then by train (1st/ 11nd A.C) & A/C taxi to the place of inspection/testing shall be arranged by the contractor/supplier/manufacturer.

- (ii) For train journey, inspecting officer of the rank Assistant General Manager and above shall be provided with 1st class AC ticket and inspecting officer below the rank of Assistant General Manager shall be provided with 2nd class AC ticket.
- (iii) The Air-ticket / train-ticket booking/ cancellation is the responsibility of the supplier. Moreover, if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route, the supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly intimated to OPTCL at the time of their offer for inspection.

C. Local Conveyance:

At the place of the inspection/ testing, for local journey of the inspecting officer between hotel and inspection/ testing site and or any other places, Air-conditioned four wheeler vehicle in good condition shall be provided by the contractor/supplier/manufacturer.

It shall be the responsibility of the Contractor/ Supplier/ Manufacturer to organize the above tour related matters of OPTCL inspecting officer including the matters related to overseas inspection/testing, if any.

Sd/-

GENERAL MANAGER (Elec)
EHT (O&M) CIRCLE, Berhampur

SECTION – II.

GENERAL TERMS AND CONDITIONS OF CONTRACT [G.T.C.C.]

1. Scope of the contract:

This specification covers the design, manufacture, assembly, inspection, testing, packing and delivery of **one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur** as per the relevant Indian Standards and the details mentioned in the Technical Specification. The same are required for outdoor utilization in EHT substations. The material offered shall be complete with all components that are necessary for efficient operation. Such parts shall be deemed to be within scope of the supply whether specifically mentioned or not. Fittings shall conform in all respect to the highest standard of engineering, design, and workmanship and shall be capable of performing trouble free continuous operation.

2 Definition of terms:

For the purpose of this specification and General Terms and Conditions of contract [GTCC], the following words shall have the meanings hereby indicated, except where otherwise described or defined.

- 2.1 “The Purchaser” shall mean the **General Manager, EHT (O&M) Circle, Berhampur** for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.
- 2.2 “The Engineer” shall mean the Engineer appointed by the Purchaser for the purpose of this contract.
- 2.3 “Purchaser’s Representative” shall mean any person or persons or consulting firm appointed and remunerated by the Purchaser to supervise, inspect, test and examine workmanship and materials of the equipment to be supplied.
- 2.4 “The supplier” shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidder’s executives, administrators, successors and permitted assignees.
- 2.5 “Equipment” shall mean and include all machinery, apparatus, materials, and articles to be provided under the contract by the suppliers.
- 2.6 “Contract Price” shall mean the sum named in or calculated the bid.
- 2.7 “General Condition” shall mean these General Terms and Conditions of Contract.
- 2.8 “The Specification” shall mean both the technical as well as commercial parts of the specification annexed to or issued with GTCC and shall include the schedules and drawings, attached thereto as well as all samples and pattern, if any.
- 2.9 “Month” shall mean “Calendar month”.
- 2.10 “Writing” shall include any manuscript, type written, printed or other statement reproduction in any visible form and whether under seal or under hand.
- 2.11 “FOR Destination costs” shall mean the cost of equipment and material at the consignee’s store/site. The cost is inclusive of GST, packing, forwarding, insurance and freight charges.
- 2.12 The term “Contract document” shall mean and include GTCC, specifications, schedules, drawings and form of tender, Notice Inviting Tender, covering letter, schedule of prices or the final General Conditions, any special conditions, applicable to the particular contract.
- 2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the ODISHA General Clauses Act.

3. MANNER OF EXECUTION:

All materials supplied under the contract shall be manufactured in the manner, set out in the specification or where not set out, to the reasonable satisfaction of the Purchaser's representative.

4. INSPECTION & TESTING:

- (i) The purchaser's representative shall be entitled at all reasonable times during manufacture to inspect, examine and test at the manufacturer's premises, the materials and workmanship of all equipment/materials to be supplied under this contract and if part of the said equipment/material is being manufactured in other premises, the supplier shall obtain for the purchaser's representative permission to inspect, examine and test as if the equipment/ material were being manufactured in the contractor's premises. Such inspection, examination and testing shall not relieve the supplier from his obligations under the contract.
- (ii) In case of exigencies and on intimation from OPTCL, the supplier / manufacturer / contractor shall facilitate the **Video Conferencing (VC)** between the NABL accredited laboratory/ test facility, representative of the supplier / manufacturer / contractor / and the OPTCL representatives, wherein the acceptance tests, routine tests or factory acceptance tests (and type test if any) shall be conducted.
- (iii) The Supplier shall give to the purchaser adequate time in writing for inspection of materials indicating the place at which the equipment/material is ready for testing and inspection and shall also furnish the shop Routine Test Certificate, Calibration certificates of Testing instruments, calibrated in Govt. approved laboratory / NABL Accredited Laboratory with authenticity letter of that laboratory along with the offer for inspection. A packing list along with the offer, indicating the quantity which can be delivered in full truck load/Mini truck load to facilitate issue of dispatch instruction shall also be furnished.
- (iv) Where the contract provides for test at the Premises of the supplier/ manufacturer/ contractor or any of his sub-vendors, the supplier/ manufacturer/ contractor shall provide such assistance, labour, materials, electricity, fuel and instruments, as may be required or as may be reasonably demanded by the Purchaser's representative to carry out such tests efficiently. The supplier/ manufacturer/ contractor is required to produce shop routine test Certificate, calibration certificates of Testing Instruments before offering their materials/equipment for inspection & testing. The test house/laboratory where tests are to be carried out must be approved by the Govt / NABL. A letter pertaining to Govt. / NABL approved laboratory must be furnished to the purchaser along with the offer for inspection.
- (v) After completion of the tests, the Purchaser's representative shall forward the test results to the Purchaser. If the test results conform to the specific standard and specification, the Purchaser shall approve the test results and communicate the same to the supplier in writing. The supplier shall provide at least two copies of the test certificates to the Purchaser.
- (vi) The Purchaser has the right to have the tests carried out at his own cost by an independent agency whenever there is dispute regarding the quality of supply.
- (vii) If the firm fails to present the offered items for inspection/testing as per their inspection call due to any reason(s) during the visit of inspecting officer at the testing site, the firm shall have to bear all expenses towards repetition of inspection and testing of the total offered quantity or part thereof.

5. DRAWINGS APPROVAL: Immediately on receipt of the purchase order, an authorized representative of the bidder shall come with necessary drawings for approval of the consignee / end-user department.

6. REJECTION OF MATERIALS: In the event any of the equipment / materials supplied by the bidder is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in

conformity with the requirements of the Specification, the Purchaser shall either reject the equipment / material or ask the supplier in writing to rectify or replace the defective equipment / material free of cost to the purchaser. The Supplier on receipt of such notification shall either rectify or replace the defective equipment/material free of cost to the purchaser within 15 days from the date of issue of such notification by the purchaser. If the supplier fails to do so, the Purchaser may:

- a) At its option replace or rectify such defective equipments/materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.
- b) Terminate the contract for balance work/supplies, with enforcement of penalty Clause as per contract for the un-delivered goods and with forfeiture of Performance Guarantee / Composite Bank guarantee.
- c) Acquire the defective equipment/materials at reduced price, considered equitable under the circumstances.

7. EXPERIENCE OF BIDDERS:

The bidders should furnish Purchase order as a proof for experience.

The tender shall be accompanied with dimensional drawing and technical literature, leaflets, manuals if any.

8. RIGHT TO REJECT/ ACCEPT ANY TENDER:

The purchaser reserves the right either to reject or to accept any or all tenders if the situation so warrants in the interest of the purchaser. Orders may also be split up between different Tenderers on individual merits of the Tenderer. The purchaser has exclusive **right to alter the quantities of materials/** equipment at the time of placing final purchase order. After placing of the order, **the purchaser may defer the delivery of the materials.** It may be clearly understood by the Tenderer that the purchaser need not assign any reason for any of the above action [s].

9. DELIVERY:

- a) Time being the essence of the contract; the equipment shall be supplied within the delivery period, specified in the contract. The Purchaser, however, reserves the right to reschedule the delivery and change the destination if required. The delivery period shall be reckoned from the date of placing the Letter of Intent/Purchase order, as may be specified in LOI / Purchase order.
- b) **The desired delivery period shall be from 30 (thirty) days of placing purchase order.**

10. DESPATCH INSTRUCTIONS.

- a) The equipment / materials should be securely packed and dispatched directly to the specified site at the supplier's risk by Road Transport only after getting dispatch clearance from the purchaser.
- b) **Loading & unloading of Ordered Materials.**
It will be the sole responsibility of the supplier for loading and unloading of materials both at the factory site and at the destination site/store. The Purchaser shall have no responsibility on this account.

11. FORCE MAJEURE:

The supplier shall not be liable for any penalty for delay or for failure to perform the contract for reasons of force majeure such as acts of god, acts of the public enemy, acts of Govt., Fires, floods, epidemics, Quarantine restrictions, strikes, Freight Embargo and provided that the supplier shall within Ten (10) days from the beginning of delay on such account notify the purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant such extension, if facts justify.

12. EXTENSION OF TIME:-

If the delivery of equipment / material is delayed due to reasons beyond the control of the supplier, the supplier shall without delay give notice to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice may or may not agree to extend the contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.

13. GUARANTEE PERIOD: -

- 14.** The stores covered by this specification should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of at least 18 [eighteen] months from the last date of delivery or 12 [twelve] months from the date of utilization / commissioning whichever is earlier. The above guarantee certificate shall be furnished in triplicate to the purchaser for his approval. Any defect noticed during this period should be rectified / replaced by the supplier free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used, within one month upon written notice from the purchaser

15. B.G. TOWARDS SECURITY DEPOSIT, 100% PAYMENT AND PERFORMANCE GUARANTEE:

- (a) For manufacturers & suppliers situated Inside & outside the state of ODISHA,

A **Composite Bank Guarantee** towards **Performance Security Deposit** for 3% [three percent] of the total landing cost (Taxable Value plus GST thereon) of the purchase order (In case of successful bidder who is a local Micro and small Enterprise(MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 3% (Three percent)) shall be furnished from any nationalized/scheduled bank having a place of business at Berhampur, drawn in favour of the office of **Deputy General Manager EHT (O&M) Circle, Berhampur** within 15 days from the date of issue of the purchase order. The BG shall be executed on non-judicial stamp paper worth of **Rs.100.00 [Rupees One Hundred]** only or as per the prevalent rules, valid for a period of 2 months more than the Guarantee Period, for scrutiny and acceptance, failing which the supply order will be liable for cancellation without any further written notices. The BG should be accompanied by a confirmation letter from the concerned bank and should have provision for encashment at Berhampur, before the Bank Guarantee is accepted and all concerned intimated. The B.G should be revalidated as and when intimated to you to cover the entire guarantee period.

- (b) No interest is payable on any kind of Bank Guarantee.
- (c) In case of non-fulfillment of contractual obligation, as required in the detailed purchase order/Specification, the composite Bank guarantee shall be forfeited.
- (d) The Bank Guarantee Format is provided at **Annexure-III, Section-V**
- (e) The aforesaid BG shall be returned to the Contractor after successful completion of the guaranteed obligations under the contract
- (f) In case of non-deposit of BG towards Performance security, the same will be deducted from your bill. In the event of any breach or default in all or any of the conditions set-forth, the authority may forfeit the whole amount of security deposit. The forfeiture of the security deposit shall not in any way limit or extinguish any remedy or relief to which the above authority at any time be law-fully entitled. No interest shall be paid on security deposit. The security deposit shall be released after satisfactory execution of contract and after the guarantee period.

16. TERMS OF PAYMENT:

- a)100%** taxable value of the consignment / purchase order with 100% Goods & Services Tax in full as applicable (including freight & Insurance charges) will be paid on receipt of materials in good condition at stores / desired site and satisfactory **material verification** thereof and upon submission of bills along with the **material verification and acceptance certificate (MVAC)**. This is subject to furnishing and approval of **Composite Bank Guarantee** at the rate of 3% [three percent]

of Taxable Value plus GST thereon [In case successful bidder is a local Micro and small Enterprise (MSEs), based in Odisha & registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC, 3% (Three percent)], as stipulated under **Clause-25** of this specification & on prior approval of guarantee certificate & Test certificate by the Purchaser. Tax as applicable shall be deducted from the source.

17. INSURANCE

The Supplier shall undertake insurance of stores / materials covered by this Specification unless otherwise stated. The responsibility of delivery of the stores at destination in good condition rests with the Supplier. Any claim with the Insurance Company or transport agency arising due to loss or damage in transit has to be settled by the supplier. The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 30 days of receipt of the materials at destination without awaiting for the settlement of their claims with the carriers and underwriters.

Official Address of the Parties to the Contract

The address of the parties to the contract shall be specified:-

18. OUTRIGHT REJECTION OF TENDERS

Tenders shall be out rightly rejected if the followings are not complied with:

- a) The tenderer shall submit the bid in electronic mode only and shall submit the cost of tender document and Tender processing fee on or before the date and time of opening of the bid. In case of local Micro and small Enterprises (MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC participating in the tender they have to **copy of valid registration as local MSE / UDYAM registration certificate** as above on or before the date and time of submission of technical bid.
- b) The Tender shall not be submitted telegraphically or by FAX.
- c) The tender shall not be conditional.
- d) There must not be any violation to the terms & conditions set forth and provided in the tender specification.
- e) The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes. Incomplete submission of this schedule will make the tender liable for rejection.
- f) All the necessary excel sheets like techno-commercial bid sheet, price bid sheet etc. attached with the tender should be duly filled up without any empty cells
- g) The Tenderer should quote 'FIRM' price only and the price should be kept valid for a minimum period of 180 days from the date of opening of the tender.
- h) Tenders shall be accompanied with clear valid photocopy of GST registration & clearance certificate, PAN card, Authorized Dealership Certificates, Certificate of Incorporation / Registration etc. which must be valid on the date of opening of the tender. All copies of documents and each page of the tender must be signed by the authorized representative of the bidders.
- i) Authorized dealership certificate issued by the manufacturers (In case of authorized dealer), valid on the date of opening of the tender shall be submitted along with the tender.
- j) Duly filled and signed Forms as per **List of Annexures, Section V**, such as Abstract of general terms and conditions of contract declaration forms etc.

Sd/-

**GENERAL MANAGER (Elec)
EHT (O&M) CIRCLE, Berhampur**

SECTION-III

SCHEDULE OF QUANTITY ALONG WITH DELIVERY SCHEDULE

Sl. No	Description of materials.	Unit	Qty
1	Supply and installation of one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur. The detail panel dimension & thickness, fabrication detail, Busbar detail should be as per data mentioned in the Technical specification. The panel box should be properly wiring as per standard color wire with all the equipment, metering/measuring equipment mentioned in the BOQ of technical specification.	Nos	1

DELIVERY SITE:

1. Address: 220/132/33kV Grid Sub-station, Narendrapur

2. Consignee: SDO, 220/132/33kV Grid Sub-station, Narendrapur

Grid.ss.nrndpr@optcl.co.in

(SECTION-IV)

TECHNICAL SPECIFICATION FOR MAIN ACDB PANEL FOR CONTROL ROOM OF 220/132/33kV GRID

SUBSTATION, NARENDRAPUR

SCOPE:

This specification covers the design, manufacture, assembly, inspection, testing, packing and delivery of Main ACDB for Control room as per the relevant Indian Standards and the details mentioned in the Technical Specification. The same are required for indoor utilization in EHT substations. The material offered shall be complete with all components that are necessary for efficient operation. Such parts shall be deemed to be within scope of the supply whether specifically mentioned or not. The equipment shall conform in all respect to the highest standard of engineering, design, and workmanship and shall be capable of performing trouble free continuous operation

CLIMATIC CONDITIONS:

The overall climate is moderate hot, humid, tropical, highly polluted and conducive to rust and fungus growth. The Main ACDB for Control room shall be given tropical and fungicidal treatment and shall be capable of satisfactory operation under the hot and humid climatic conditions that would prevail at sites. The climatic conditions are prone to wide range of variation in ambient conditions. The materials offered shall be suitable for installation at any of the switchyards and EHT lines of Odisha State.

SYSTEM PARTICULARS:

- 3.1 Nominal System Voltage: 415 V
- 3.2 Highest System Voltage: 457 V
- 3.4 Lowest System voltage: 374 V
- 3.4 Number of phases: 3
- 3.5 System earthing: Effectively earthed.

STANDARDS:

The equipment shall conform to the latest applicable Indian standard and their amendments. The equipment complying with any authorized international standard will also be considered if it ensures performance equivalent to or superior to Indian standards. In the event of supply of equipment conforming to any internationally recognized standard other than the Indian standards, the salient features of comparison shall be brought out.

Unless otherwise specified it should conform to the latest applicable Indian Standards and in particular to the following:

BILL OF QUANTITY

Sl. No.	Description of Work	Quantity	Unit
INCOMER-1			
1	800A-TP ACB ELETRICAL OPERATED DRAWOUT TYPE WITH SPRING CHARGE INDICATION, MP RELEASE,4 NO+4 NC AUX CONTACT,220V DC SHUNT TRIP,220V DC CLOSING COIL & 220V DC TRIPPING COIL	1	No.
2	NUMERICAL RELAY (CSEZEN-F550) WITH 16DI & 16 DO INIGRATED TYPE (220V AC/DC SUPPLY)	1	No.
3	ELETRICAL MASTER TRIP RELAY-1 (220V DC SUPPLY)	1	No.
4	TNC SWITCH-1	1	No.
5	PT 3PH 4 WIRE (415V/110V) 50VA	1	No.
6	CT-800/1A CLASS-5P10,15VA FOR NUMERICAL RELAY	4	No.
7	CT-800/1A CLAAS-1.0,15VA FOR METERING	3	No.
8	2A SP MCB C-CURVE FOR R,Y,B INDICATOR	3	No.
9	6A SP MCB C-CURVE FOR INCOMING SIDE OF PT	3	No.
10	6A SP MCB C-CURVE FOR OUTGOING SIDE OF PT	3	No.
11	CLUSTERED LED-ASSLY-240V AC-22.5MM RED	1	No.
12	CLUSTERED LED-ASSLY-240V AC-22.5MM YELLOW	1	No.
13	CLUSTERED LED-ASSLY-240V AC-22.5MM BLUE	1	No.
14	CLUSTERED LED-ASSLY-220V DC-22.5MM RED (ON)	1	No.
15	CLUSTERED LED-ASSLY-220V DC-22.5MM GREEN (OFF)	1	No.
16	CLUSTERED LED-ASSLY-220V DC-22.5MM AMBER (TRIP)	1	No.
17	CLUSTERED LED-ASSLY-220V DC-22.5MM WHITE (SPRING CHARGE)	1	No.
18	CLUSTERED LED-ASSLY-220V DC-22.5MM RED (DC HEALTHY)	1	No.
19	CLUSTERED LED-ASSLY-220V DC-22.5MM AMBER (Master Trip Relay-1 TRIP)	1	No.
20	10A DP MCB C-CURVE FOR CONTROLLING OF U/V COIL-1 & (K1,P1,Z1 CONTACTOR)	1	No.
21	10A DP DC MCB C-CURVE FOR CONTROLLING OF I/C-1 , NUMERICAL RELAY-1 OUTGOING , MTR-1	1	No.
22	220V AC AUXILARY CONTACTOR FOR BUS-COUPLER U/V CONTROL	1	No.
23	220V AC AUXILARY CONTACTOR FOR PT CONTROL FOR NUMERICAL RELAY-3	1	No.
24	220V AC AUXILARY CONTACTOR FOR AUXILARY SUPPLY FOR NUMERICAL RELAY-3	1	No.
25	220V DC AUXILARY CONTACTOR FOR OFF INDICATOR AND CONTROLLING OF D1 AUXILARY CONTACTOR	1	No.
26	220V DC AUXILARY CONTACTOR FOR CONTROLLING FOR BUS-COUPLER ACB	1	No.
INCOMER-2			
1	800A-TP ACB ELETRICAL OPERATED DRAWOUT TYPE WITH SPRING CHARGE INDICATION, MP RELEASE,4 NO+4 NC AUX CONTACT,220V DC SHUNT TRIP,220V DC CLOSING COIL & 220V DC TRIPPING COIL	1	No.
2	NUMERICAL RELAY (CSEZEN-F550) WITH 16DI & 16 DO INIGRATED TYPE (220V AC/DC SUPPLY)	1	No.
3	ELETRICAL MASTER TRIP RELAY-2 (220V DC SUPPLY)	1	No.
4	TNC SWITCH-2	1	No.
5	PT 3PH 4 WIRE (415V/110V) 50VA	1	No.
6	CT-800/1A CLASS-5P10,15VA FOR NUMERICAL RELAY	4	No.
7	CT-800/1A CLAAS-1.0,15VA FOR METERING	3	No.
8	2A SP MCB C-CURVE FOR R,Y,B INDICATOR	3	No.
9	6A SP MCB C-CURVE FOR INCOMING SIDE OF PT	3	No.
10	6A SP MCB C-CURVE FOR OUTGOING SIDE OF PT	3	No.
11	CLUSTERED LED-ASSLY-240V AC-22.5MM RED	1	No.

12	CLUSTERED LED-ASSLY-240V AC-22.5MM YELLOW	1	No.
13	CLUSTERED LED-ASSLY-240V AC-22.5MM BLUE	1	No.
14	CLUSTERED LED-ASSLY-220V DC -22.5MM RED (ON)	1	No.
15	CLUSTERED LED-ASSLY-220V DC -22.5MM GREEN (OFF)	1	No.
16	CLUSTERED LED-ASSLY-220V DC -22.5MM (DUAL COLOR : RED/GREEN) (TRIP CKT HEALTHY)	1	No.
17	CLUSTERED LED-ASSLY-220V DC -22.5MM WHITE (SPRING CHARGE)	1	No.
18	CLUSTERED LED-ASSLY-220V DC -22.5MM RED (DC HEALTHY)	1	No.
19	CLUSTERED LED-ASSLY-220V DC -22.5MM AMBER (MTR-2 TRIP)	1	No.
20	10A DP MCB C-CURVE FOR CONTROLLING OF U/V COIL-2 & (K2,P2,Z2 CONTACTOR)	1	No.
21	10A DP DC MCB C-CURVE FOR CONTROLLING OF I/C-2 , NUMERICAL RELAY-2 OUTGOING , MTR-2	1	No.
22	220V AC AUXILARY CONTACTOR FOR BUS-COUPLER U/V CONTROL	1	No.
23	220V AC AUXILARY CONTACTOR FOR PT CONTROL FOR NUMERICAL RELAY-3	1	No.
24	220V AC AUXILARY CONTACTOR FOR AUXILARY SUPPLY FOR NUMERICAL RELAY-3	1	No.
25	220V DC AUXILARY CONTACTOR FOR OFF INDICATOR AND CONTROLLING OF D2 AUXILARY CONTACTOR	1	No.
26	220V DC AUXILARY CONTACTOR FOR CONTROLLING FOR BUS-COUPLER ACB	1	No.
	BUS-COUPLER		
1	800A-TP ACB ELETRICAL OPERATED DRAWOUT TYPE WITH SPRING CHARGE INDICATION, MP RELEASE,4 NO+4 NC AUX CONTACT,220V DC SHUNT TRIP,220V DC CLOSING COIL & 220V DC TRIPPING COIL	1	No.
2	NUMERICAL RELAY (CSEZEN-F550) WITH 16DI & 16 DO INIGRATED TYPE (220V AC/DC SUPPLY)	1	No.
3	ELETRICAL MASTER TRIP RELAY-3 (220V DC SUPPLY)	1	No.
4	TNC SWITCH-3	1	No.
5	CT-800/1A CLASS-5P10,15VA FOR NUMERICAL RELAY	4	No.
6	CLUSTERED LED-ASSLY-220V DC -22.5MM RED (ON)	1	No.
7	CLUSTERED LED-ASSLY-220V DC -22.5MM GREEN (OFF)	1	No.
8	CLUSTERED LED-ASSLY-220V DC -22.5MM AMBER (TRIP)	1	No.
9	CLUSTERED LED-ASSLY-220V DC -22.5MM WHITE (SPRING CHARGE)	1	No.
10	CLUSTERED LED-ASSLY-220V DC -22.5MM RED (DC HEALTHY)	1	No.
11	CLUSTERED LED-ASSLY-220V DC -22.5MM AMBER (MTR-2 TRIP)	1	No.
12	10A DP DC MCB C-CURVE FOR CONTROLLING OF BUS-COUPLER , NUMERICAL RELAY-2 OUTGOING , MTR-3	1	No.
13	10A DP MCB C-CURVE FOR AUXILARY SUPPLY OF NUMERICAL RELAY-3	1	No.
	OTHERS		
	FABRICATION OF THE MAIN ACDB PANEL ALOING WITH POWDER COATING AND FIXING OF ALL SWITCHGEAR, BUS BARS AND WIRING, READY TO USE.	1	LS
1	LOCAL REMOTE SWITCH FOR LOCAL REMOTE OPERATION	1	No.
2	16A DP MCB C-CURVE FOR CONTROLLING OF SPACE HEATER & DOOR LAMP	1	No.
3	16A DP MCB C-CURVE FOR CONTROLLING OF SPACE HEATER & DOOR LAMP	1	No.
4	DOOR LIMIT SWITCH-1	1	No.
5	DOOR LIMIT SWITCH-2	1	No.
6	SPACE HEATER-1	1	No.
7	SPACE HEATER-2	1	No.
8	THERMOSTART-1	1	No.
9	THERMOSTART-2	1	No.
10	BULB HOLDER-1	1	No.

11	BULB HOLDER-2	1	No.
OUTGOING			
1	MCCB-4P-25KA-250A-TM BASED WITH O/C & ADJUSTABLE STATIC /MAGNETIC WITH ROTARY HANDLE	4	No.
2	MCCB-4P-10KA-100A-TM BASED WITH O/C & ADJUSTABLE STATIC /MAGNETIC WITH ROTARY HANDLE	16	No.
3	MCB-63A -4P 10KA C CURVE	42	No.
4	POWER TERMINAL BLOCK-63A (KUT-16)	168	No.
5	MCB-32A -4P 10KA -C CURVE	24	No.
6	POWER TERMINAL BLOCK-32A (KUT-6)	96	No.
7	MCB-16A -DP 10KA -C CURVE	16	No.
8	POWER TERMINAL BLOCK- 16A (KUT-6)	64	No.

DESIGN DETAILS

Design of Panels	Panel made of 2 mm Load bearing- 2 mm CRCA & Non load bearing-2 mm CRCA
Type of construction	Cable entry from bottom (Incoming & Outgoing) Design In Back Side bus bar & back side cable alley Panel hooks will be provided at the top of the panel Stickers are provided on the door of each feeder Consoled hinged doors will have flexible earthing (4.0sqmm copper wire)
Operation	: Single Front Opening Door with Back Side Openable
Nature of installation	: Indoor
Mounting	: Floor mounting as shown in drawing
Rated Voltage	: 415V ± 10%, 3ph, 4Wire, TPN (Neutral will be 50% capacity of Ph.)
Rated Frequency	: 50Hz ± 5%
Degree of protection	: Weatherproof, Dustproof & Vermin Proof, IP-55
Gasket	: Good quality Gasket for Doors and Covers will be provided
Base Frame	: 75mm X 40mm x 5mm ISMC

FABRICATION DETAILS

Size:	(H x W x D): 2175mm x 4850mm x 900mm Mounting Channel 75 x 40 x 5mm
Material of sheet metal	: Cold Rolled and Cold Annealed (CRCA)
Sheet Thickness	: 2.6mm (12SWG) for main frames (CRCA) : 2.6mm (12SWG) for partitions/covers (CRCA) : 2.6mm (12SWG) for Doors/Base plates (CRCA)
Cable Entry	: Bottom Entry
Gland plate	: 3.00mm (11SWG) CRCA thick removable gland plate
Tolerance	: ± 10%

BUSBARS

Material of conductor	: Hard drawn high conductivity Electrolytic Grade Copper / Aluminium (E91E)
Current Density	: 0.8A/Sq.mm for Al
Fault Level	: 50KA/1sec
Busbar insulation/	
Colour Coding	: PVC Heat shrinkable sleeves with R, Y, B & N colour coding.
Busbar supports	: Non-Hygroscopic DMC supports
Busbar clearances	: Phase to Phase - 25.4mm min. : Phase to Neutral- 19mm min.
Sizes of Bus bars (Main)	: 100 X 10 Sq. mm for Ph.
Neutral Busbar	100 X 10 Sq. mm
Earthing	: 100 x 5 Sq.mm

Other requirements

- a) The bus bars shall be of E.G. copper/aluminum alloy, liberally sized for the specific current ratings (both short circuit and continuous currents). The size of the bus bars shall be such that the current density is not more than 0.8A/1.2A per sq.mm. for aluminum alloy and copper respectively at rated capacity.
 - b) Necessary precaution shall be taken to avoid bimetallic action where copper conductors shall be connected to the aluminum bus. Means shall be provided for identifying various phases of bus bars.
 - c) Bus support shall be of arc resistant, non-tracking, low absorption type insulators of high impact strength and high creepage surface.
 - d) Buses shall be spaced with adequate clearance between phases and phases to ground.
 - e) The bus and connections shall be so supported as to be capable of safety withstanding stresses due to maximum short circuit current and also take care of any thermal expansion.
 - f) Separate supports shall be provided for each phase of the bus bars
 - g) The droppers/riser from or to the bus bars should not be twisted but reasonable bend or joint may be allowed.
 - h) The board shall be provided with three phase and neutral bus bars covered by heat shrink PVC Tube and with DMC insulators.
 - i) Bus bars shall be of uniform cross section throughout the length of the Board and up to the incoming terminals of feeder circuit.
 - j) Bus bar joints shall be complete with high tensile steel bolt and washers and nuts. Bus bars shall be thoroughly cleaned at the joint locations and a suitable contact grease shall be applied just before making a joint.
1. Panel Meters (Voltsmeters and Ammeters) with provision for dual 4-20mA output to be included for each Incomer-1 and Incomer-2 along with Selector Switches.
 2. Annunciator (8 Window) and Hooter to be included for annunciation of fault signals (Relay Trip signals)
 3. Option for 3 modes viz. *Auto, Manual and Remote* to be made available in the ACDB panel.

4. In Auto Mode: Auto-closing scheme of Bus Coupler Breaker to be included with following Logic:

Incomer-1	Incomer-2	Bus Coupler
ON	ON	OFF
ON	OFF	ON (Auto)
OFF	ON	ON (Auto)

MCCB / MCB:

- a) The MCCB (**30KA breaking capacity**) /MCB (**C-Curve with 10KA breaking capacity**) of reputed make such as **L&T/ Schneider / C&S / BCH**, shall be provided with a quick make-quick break type of switching mechanism (thermal actuation)
- b) The MCCB/MCB of reputed make such as L&T/ Schneider / C&S / BCH shall be provided with a quick make-quick break type of switching mechanism (thermal actuation)
- c) The MCCB/MCB shall employ a maintenance free contact system designed to minimize the let through energies while handling abnormal currents.
- d) Miniature or moulded case circuit breakers (MCB's or MCCB's) shall be suitable for use over the full range of expected voltage variation as specified in the Schedules.
- e) MCB's and MCCB's shall be suitably rated for both the continuous and short circuit loading of the circuits they are protecting under all service and atmospheric conditions stated in the specification. The Contractor shall ensure that correct discrimination is maintained between main and sub-circuits.
- f) For three phase circuits, the miniature circuit breakers shall be of the three-pole and neutral type; for single phase circuits they shall be of the double pole type.
- g) Where miniature circuit breakers are used in circuits containing inductive loads, e.g. operating coils, it is essential that they are suitable for satisfactory operation in the circuit in which they are used, i.e. account is taken of the circuit time constant.
- h) All miniature circuit breakers shall be provided with an auxiliary contact for remote indication of circuit breaker operation.
- i) Means shall be provided to prevent the miniature circuit breakers being inadvertently switched to the 'OFF' position.
- j) Miniature circuit breakers shall be mounted in such a manner so as to give easily visible indication of breaker position and shall be grouped and spaced according to their function in order to facilitate identification and easy replacement.

TERMINAL BLOCKS

Terminal Block Sizes to be used (Make: Connectwell, Elmex)			
Sl. No	Terminal Size	S/G rating	Equivalent Elmex make Product Code
1	35 SQMM	100A	KUT35

2	25 SQMM	80A	KUT25
3	16 SQMM	60A	KUT16
4	10 SQMM	40A	KUT10
5	06 SQMM	32A	KUT6
6	04 SQMM	25A & below	KUT6
7	50 SQMM	125A	KUT50
8	2.5 SQMM	For CT (Disconnecting Type)	KLTD M4
9	95 SQMM	250A	CBT 250 (MELAMINE)

- a) Terminal blocks shall be 1100V grade and have continuous rating to carry the maximum expected current on the terminals and non-breakable type. These shall be moulded, complete with insulating barriers, stud type-screw driver operated **(disconnecting type for CT / PT Circuits)** terminals, complete with washers, nuts and lock nuts. **Make: Elmex / Connectwell**
- b) The terminal blocks shall be readily accessible and those shall be rust proof and of best quality.
- c) Power terminals shall be complete with lugs and control terminals shall be clamp type
- d) The terminal blocks used for above mentioned aux power incomer circuits shall be suitable for making loop-in loop-out connection of connected cable. And for outgoing aux power circuits, terminal blocks shall be of Elmex/ Connectwell.
- e) The terminal shall be such that maximum contact area is achieved when a cable is terminated. The terminal shall have a locking characteristic to prevent cable from escaping from terminal clamp unless it is done intentionally.
- f) The conducting part in contact with the cable shall preferably be tinned or silver-plated. However, nickel-plated copper or zinc-plated steel shall also be acceptable.
- g) The terminal blocks shall be of extensible design.
- h) Terminal block design shall include a white-fiber marking strip. Markings on terminal strips shall correspond to numbers on wiring diagrams. The terminal blocks shall be fully enclosed with removable covers of transparent, non-deteriorating type plastic material. Insulating barriers shall be provided between the terminal blocks. These barriers shall not hinder the operator from carrying out the wiring without removing barriers.
- i) The arrangement shall be such that it is possible to safely connect or disconnect terminals on the live circuits and replace fuse links when the cabinet is live.
- j) At least 10 % spare terminals shall be provided and these spare terminals shall be uniformly distributed on all terminal's rows.

- k) There shall be a minimum clearance of 250 mm between the first/ bottom row of terminal blocks and the associated cable gland plate. Also, the clearance between two adjacent rows of terminal blocks shall be a minimum of 150 mm.
- l) Terminal connection shall be such that the conductors may be connected by means of screw or other equivalent means so as to ensure that the necessary contact pressure is maintained permanently.
- m) Terminal shall be such that they cannot turn or be displaced when the connecting screws are tightened and such that the conductor can also not become displaced.
- n) Terminals should be so mounted that the appropriate wire may be connected without impairing the normal performance of the unit.

WIRING

Following size flexible copper wire to be used for Control wiring

(Make: Finolex/ RR Kabel/ Apar Anushakti/ KEI Industries)

1	AC voltage circuit	2.5Sq.mm	(Red, Yellow, Blue, Black)
2	AC Current circuit	2.5Sq.mm	(Red, Yellow, Blue, Black)
3	Earthing	4.0Sq.mm	(Green)
4	DC control Circuit	2.5Sq.mm	(Grey)
5	AC control circuit	2.5Sq.mm	(Black)

Following size flexible copper wire to be used for Power wiring

Wire of (Make: Finolex/ RR Kabel/ Apar Anushakti/ KEI Industries) to be used for different switchgear rating		
Sl.No	Copper Flexible wire size	S/G rating
1	35 SQMM	100A
2	25 SQMM	80A
3	16 SQMM	60A
4	10 SQMM	40A
5	06 SQMM	32A
6	04 SQMM	25A
7	50 SQMM	125A
8	95 SQMM	800A
9	2.5 SQMM	For CT

10	2.5 SQMM	For control
Note: For 80A rating and above switchgears, suitable aluminium busbar might be used.		

- a) All internal wiring shall be carried out with single core, stranded copper conductor wires with PVC insulation and shall be flame, vermin and rodent proof preferably of Make: Finolex/ RR Kabel/ Apar Anushakti/ KEI Industries. (1100V Grade)
- b) All internal wiring shall be securely supported, neatly arranged, readily accessible and connected to equipment terminals and terminal blocks.
- c) Wiring gutters /troughs shall be provided for this purpose and for interlocking TBs as well.
- d) Wire termination shall be made with solder less crimping type of tinned copper lugs, which firmly grip the conductor and insulation. Insulated sleeves shall be provided at all the wire terminations.
- e) Engraved/ painted core identification plastic ferrules marked to correspond with panel wiring diagram numbering shall be fitted at both ends of each wire. Ferrules shall fit tightly on wires and shall not fall off when the wire is disconnected from the terminal blocks.
- f) All wiring shall be complete up to the terminal blocks at the factory
- g) Wires shall not be spliced or tapped between terminal points. Each wire shall be continuous and there shall not be any joint within itself. Individual wire shall be connected only at the connection terminal blocks, meters, relays, instruments, and other devices used in the switchboards. Red, Yellow, Blue and Black ferrules shall be used for Red, Yellow, Blue phases and Neutral respectively.
- h) Wires shall be neatly bunched and adequately supported so as to prevent sagging and strain on termination.
- i) All spare contacts of the equipment shall be wired up to the terminal block. The wiring shall be of 1.1 KV grade.

SHEET METAL WORK:

- a) The ACDB frame shall be fabricated using pressed & shaped Rolled Cold Annealed (CRCA) sheet steel of **minimum 2.6mm** thickness.
- b) The ACDB shall be enclosed by CRCA sheet steel of **minimum 2.6mm** thickness smoothly finished & levelled.
- c) Doors & covers shall be made of **2.6mm thick** CRCA sheet steel.
- d) Adequate stiffeners shall be provided wherever necessary.
- e) The Gland plate shall be removable type made up of **3.0mm CRCA** sheet steel.
- f) All panel edges and door edges shall be reinforced against distortion. Cut outs shall be true in shape and devoid of sharp edges.
- g) The complete structure shall be rigid, self-supporting free from vibration, twists & bends.

- h) The box shall be properly braced to prevent wobbling. There shall be sufficient reinforcement to provide level surfaces, resistance to vibrations and rigidity during transportation and installation. Top of the boxes shall be sloped towards rear.

FUSES

- a) Fuses shall be of the HRC cartridge fuse-link type having a rupturing capacity of not less than 36kA at 440V. Fuses up to 100A distribution systems of medium short circuit levels may be of HRC cartridge screw-cap type, having a certified rupturing capacity of not less than 25KA at 440 V and 10KA at 250V DC.
- b) Fuses shall be provided with visible indication to show that they have operated.
- c) Fuses shall preferably be mounted in moulded plastic carries and shall be complete with fuse bases.
- d) Carriers and bases for fuses and links shall be colour coded to permit identification of the circuit rating.
- e) The fuses and links mounted in cubicles for tripping circuits and protective gear test links shall be mounted on the front of the panel. Other links and fuses shall be accommodated within the cubicle or above the cubicle doors. Fuses and links shall be grouped and spaced according to their function in order to facilitate identification.
- f) The contacts of the fixed portion of the fuse or link shall be shrouded so that accidental contact with live metal cannot be made when the moving portion is withdrawn.
- g) Main supply fuse links shall be of the high rupturing capacity cartridge type.
- h) Where fuse carriers are mounted vertically the incoming (supply) side shall be the bottom terminal.
- i) Where either fuses or circuit breakers are used it should be ensured that proper discrimination between main and sub-circuits is maintained.

INDICATING INSTRUMENTS AND METERS:

Electrical indicating instruments such as Digital Voltmeter / Ammeter shall be of reputed make.

INDICATING LAMPS:

The indicating lamps shall be Cluster LED type having low watt consumption and shall be provided, translucent lamp cover of appropriate colour. The bulb & lens shall be easily replaceable from the front. Lamps shall be of very low wattage consumption and heat generated due to continuous burning shall not deteriorate lamp cover. The lamp holders shall preferably be screwed type.

CONTROL & SELECTOR SWITCHES:

The control & selector switches shall be adequately rated for the purpose intended and shall be rotary type. They shall be provided with escutcheon plates clearly marked to show the position.

SAFETY EARTHING

- a) All instrument shall be connected to the earth bus bar using 1100/650V grade, 2.5 sq.mm stranded copper earthing conductor.
- b) Provision shall be given for earthing at two points of the Board.
- c) The Board, shall be provided with an earth bus bar running along the entire length of the board. Material and **size of the earth bus bar shall be of 100x5 sq.mm** soft drawn bare copper bus

- d) At either end of the earth bus, one (1) clamp type terminal with nuts, bolts and earthing conductor shall be provided for bolting Purchaser's earthing conductor.
- e) Tail connections shall have minimum area of 16 sq. mm. and the main earth connection for switchboard shall be brought out of two terminals for connection with the station earthing system.
- f) Earthing terminals should be identified by means of the sign marked on a legible and indelible manner on or adjacent to the terminals.
- g) Earth bus bars shall be supported at suitable intervals.
- h) Earthing lugs shall be provided and all earthing connections shall be carried out with green wires
- i) Earthing of hinged door shall be done by using a separate earth wire.

SWITCHBOARD LIGHTING

Illumination of each compartment of ACDB shall be with suitable number of door-operated LED based illumination of minimum 9 watts shall be provided. The switching of the fittings shall be controlled by the door switch., single phase, 50 Hz AC

SPACE HEATERS

The A.C. switchboards shall be provided with space heaters rated for 240 volts single phase A.C. Each heater shall be provided with ON/OFF switch. The wattage of the heater shall be such as to keep 10 deg. C. above the ambient temperature during rainy season but the temperature shall not damage the wiring.

COLOUR CODING

Control wiring : GREY

CT wiring : RED, YELLOW, BLUE, BLACK

Earth : GREEN

PAINTING

- a) BIS Grey shade (Exterior) as per IS: 5 (Shade No: 697) or RAL: 7032, and Glossy Milky White (Interior) Textured Finish with Polyester/ TGIC based powder coated paint. The surface should be pre-treated by shot blasting or phosphating as per IS 13871: 1993 with present amendments.
- b) The final finished thickness of paint film on steel shall not be less than 50microns, and shall not be more than 80 microns.
- c) Finished painted appearance of equipment shall present an aesthetically, pleasing appearance, free from dents and uneven surfaces.

CABLE TERMINATION

Switchboards shall be designed to facilitate PVC cable entry from the bottom of the switchboards. Removal plates shall be supplied for this purpose which will be drilled at site to fit the cable glands.

Sufficient space shall be provided to avoid sharp bending and for easy connection

GENERAL TECHNICAL REQUIREMENT

- a) The enclosures shall be provided with double hinged doors and /or removable covers with padlocking arrangements. The distance between two hinges shall be adequate to ensure uniform sealing pressure against atmosphere.

- b) All doors, removable covers and plates shall be gasketed all round with suitable profiled EPDM/Neoprene/PU gaskets. All gasketed surfaces shall be smooth, straight and reinforced if necessary to minimize distortion and to make a tight seal. The quality of gaskets shall be such that it does not get damaged/ cracked during ten years of operation of the equipment or its major overhaul whichever is earlier.
- c) Further, the gasketing arrangement shall be such that gaskets are pasted in slots (in door fabrication/gasket itself) in order to prevent ingress of dust and moisture inside the panels so that no internal rusting occurs in panels during the operation of the equipment.
- d) Ventilating louvers, if provided, shall be with screens and filters. The screen shall be fine wire mesh made of brass.
- e) Auxiliary circuit (Heater, Lamp and Socket) shall be provided
- f) The ACDB shall be supplied with fixing hardware / foundation bolts
- g) The ACDB shall be provided with danger plate and a diagram showing the numbering/connection/ferruling by pasting the same on the inside of the door
- h) All housings shall be designed for the entry of cables from the bottom by means of weatherproof and dust-proof connections.
- i) ACDB shall be designed with generous clearance to avoid interference between the wiring entering from below and any terminal blocks or accessories mounted within the housing
- j) The gland shall project at least 25 mm above the gland plate to prevent entry of moisture in the cable crutch. Gland plate shall have provision for some future glands to be provided later, if required. The Nickel-plated glands shall be dust proof, screw on & double compression type and made of brass. The gland plate meant for each section shall be split in to two parts.

CONSTRUCTIONAL FEATURES

- a) A metal sill frame made of M.S. channel of 75 x 40 x 5 mm ISMC shall be provided as base frame, properly drilled for mounting the distribution board. Necessary hardware shall also be provided for the same.
- b) It shall be provided with cable entry at bottom with 3.0 mm removable gland plate.
- c) The board shall be provided with gasket all round include removable covers & doors.
- d) All the operating devices shall be provided only on the front of the board.
- e) Space may be left for future expansion after equiposed of the board.
- f) The compartment shall be sheet steel enclosed on all sides and rear.
- g) The front of the compartment shall be provided with hinged door.
- h) Only the handles of switches, push buttons knobs and cut-outs for lamps & meters shall be arranged on front of the respective compartment to permit operation without opening the door. All cut-outs shall be gasketed for dust proofing.
- i) All doors shall be provided with concealed type hinges and captive screws.

PAINTING GALVANIZING AND CLIMATE PROOFING

All interiors and exteriors of enclosures, cabinets and other metal parts (other than made up of aluminum) shall be thoroughly cleaned to remove all rust, scales, corrosion, grease and other adhering foreign matter and the surfaces treated by phosphating (e.g. seven tank phosphating sequence). After such preparation of surfaces, two coats of zinc oxide primer shall be given by suitable stoving and air drying before final painting. Colour of the final paints shall be of shade no. 697 of IS:5 or as per RAL: 7032. Glossy Milky White finish for interior is also acceptable. The finally painted cubicle shall present aesthetically pleasing appearance free from any dent or uneven surface. Paint inside the metallic housing shall be of anti-condensation type and the paint on outside surfaces shall be suitable for outdoor installation.

TESTING

TYPE TESTS

The ACDB shall have been subjected to type test for the IP 55 degree of protection of enclosure. The bidder shall furnish the type test report (not older than 10 years from the date of opening of bids) at contract stage. The type test for degree of protection of enclosure shall be preceded and followed by following tests:

- a) kV withstand for one minute (2.5kV for 1 minute)
- b) Insulation Resistance (500kV DC for Power & Control)
- c) Functional tests

ROUTINE TESTS

The Junction Box shall be subjected to following routine tests, as per IS 5039:

- a) kV rms. for one minute test (2.5kV for 1 minute)
- b) Check for wiring
- d) Insulation Resistance (500kV DC for Power & Control)
- c) Visual and dimensional check
- d) Checking for paint.

Sd/-
GENERAL MANAGER (Elec)
EHT (O&M) CIRCLE, Berhampur

SECTION-V

[LIST OF ANNEXURES]

1	Declaration form	ANNEXURE-1
2	Abstract of terms and conditions to accompany Section-II of Part-I	ANNEXURE-2
3	Proforma for composite bank guarantee for security deposit payment and performance	ANNEXURE-3
4	Reverse Auction Process Compliance	ANNEXURE -4

ANNEXURE - 1
DECLARATION FORM

To,
The General Manager (Elect)
EHT (O&M) Circle, OPTCL
Berhampur

Sub: - **Tender Specification No-**_____

Sir,

1. Having examined the above specification together with terms & conditions referred to therein I/We the undersigned hereby offer to take up the **Supply of one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur for SAS Project Work** including supply of materials, other consumables etc in all respects as per the specification and General conditions, at the rates, entered in the attached contract schedule of prices in the Tender.

2. I / We hereby undertake **Supply of one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur for SAS Project Work** as specified in the Tender.

3. I / We hereby guarantee the validity of the required documents from concerned authorities to be submitted as per the ELIGIBILITY FOR BID SUBMISSION mentioned in the Tender specification.

4. I/We certify to have submitted the bid electronically by remitting *cash/money order /D.D./ remitting the cost of tender, herewith and this has been acknowledged by your letter/ money receipt No. _____ Dated, _____

5. In the event of Tender, being decided in *my/our favour, * I/We agree to furnish the Composite B.G. / Fixed Deposit in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to *me/us as per **Clause-23 of section-II** of this specification within 15 days of issue of letter of intent/purchase order failing which *I/We clearly understand that the said letter of Intent/Purchase order will be liable to be withdrawn by the purchaser and I/we will be suspended from being eligible for bidding/ award of all future contract(s) of EHT (O&M) Circle, OPTCL, Berhampur for a period of three (3) years from the date of committing such breach.

Signed this _____ day of _____ 2023

Yours faithfully

Signature of the Tenderer

with seal of the company

[This form should be dully filled in & signed by the tenderer and uploaded at the time of submission of tender.]

* (Strikeout whichever is not applicable)

ANNEXURE - 2

**ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT
[COMMERCIAL] TO ACCOMPANY PART-I**

1(a)	Cost of Tender Document: D.D No & Date.	
1(b)	EMD	Yes/No
1(c)	Tender Processing Fee: E-Challan No. & Date.	
2	Supplier's / Manufacturer's past experience including user's certificate furnished	Yes/No
3	Manner of work:- Whether agreeable to OPTCL's desired manner as indicated .	Yes/No
4	Whether agreeable to furnish Composite B.G in case his tender be successful.	Yes/No
5	Terms of payment:- Whether agreeable to OPTCL's terms regarding payment'	Yes/No.
6	Nature of price:- FIRM	Yes/No
7	Penalty:- Whether agreeable to OPTCL's terms .	Yes/No
8	Validity: - Whether agreeable to OPTCL's terms	Yes/No
9	Whether declaration form duly filled in furnished.	Yes/No.
10	Whether scanned copy of required documents furnished.	Yes/No.
11	Whether scanned copy of Audited Accounts furnished	Yes/No.

Place: -

Date:

Signature of Tenderer:

Name, Designation, Seal

ANNEXURE - 3

PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE

(To be stamped in accordance with Stamp Act and the Non-Judicial stamp paper of appropriate value should be in the name of the Issuing Bank.)

This Guarantee Bond is executed this _____ day of _____
2022/23 by us the _____ Bank at
_____ P.O. _____ P.S. _____
_____ District _____ State _____

1. WHEREAS the ODISHA POWER TRANSMISSION CORPORATION LTD., a body corporate constituted under the Electricity Act, 2003 [hereinafter called “the OPTCL” which shall include its successors and assigns has placed orders No. _____ Date _____ [hereinafter called “The Agreement”] on M/s. _____

[Hereinafter called “Agency”], which shall include its successors & assignees.

AND WHERE AS the Agency has agreed to *Supply of one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur* to the OPTCL in terms of the said agreement AND

WHEREAS the OPTCL has agreed [1] to exempt the Agency from making payment of Security [2] to release 100% payment of the cost of service as per the said agreement and [3] to exempt from performance guarantee on furnishing by the Firm / Agency to the OPTCL, a Composite bank Guarantee of the value of 5 % [five percent] of the contract price of the said agreement.

NOW THEREFORE, in consideration of the OPTCL having agreed [1] to exempt the Agency from making payment of Security [2] releasing 100% payment to the Firm / Agency and [3] to exempt from furnishing performance guarantee in terms of the said agreement as aforesaid, we, the _____ [Bank][hereinafter referred to as ‘the Bank’] do hereby undertake to pay to the OPTCL an amount not exceeding Rs. _____ [Rupees _____] against any loss or damage caused to or suffered by or would be caused to or suffered by the OPTCL by reason of any breach by the said Agency [s] of any of the terms or conditions contained, in the said agreement.

2. We the (_____ Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from OPTCL stating that the amount claimed is due by way of loss or damage caused to or suffered by OPTCL by reason of any breach by the said Firm / Agency [s] of any of the terms or conditions, contained in the said agreement or by reason of the Firm / Agency’s failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ [Rupees _____]
_____]

3. We the _____ Bank} also undertake to pay to OPTCL any money so demanded notwithstanding any dispute or disputes raised by the Firm / Agency [s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Agency [s] shall have no claim against us for making such payment.

4. We, (_____ Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to do so enforceable till all the dues of the OPTCL under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Managing Director, ODISHA POWER TRANSMISSION CORPORATION LTD. certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Firm / Agency [s] and accordingly discharges this Guarantee.

Unless a demand or claim under this guarantee is made on us in writing on or before the [Date _____], we shall be discharged from all liability under this guarantee thereafter.

5. We,(_____ Bank) further agree that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Firm / Agency and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said Firm / Agency or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Firm / Agency [s] or by any such matter or thing whatsoever which under the law relating to sureties would but these provisions have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank and The Firm / Agency [s].

7. We, [_____ Bank] lastly undertake not to revoke this guarantee during its _____ currency except with the previous consent of the OPTCL in writing.

8. We the _____ Bank further agree that this guarantee shall also be inviolable at our place of business at Branch of Bhubaneswar in the state of Odisha. [Indicate the name of the Bank& Branch]

‘Notwithstanding anything contained herein above’

a) Our liability under the bank guarantee shall not exceed Rs. _____ (In words Rupees _____).

b) This bank Guarantee shall be valid up to _____ .

c) We are liable to pay guaranteed amount or any part thereof under this bank guarantee only if you serve upon us at _____ branch of Bhubaneswar in the state of Odisha a written claim or demand on or before _____ (date of expiry of guarantee).

Date at _____ the, _____ day of 20 _____.

For _____

[Indicate the name of Bank]

Witness (Name, Signature & Address)

- i.
- ii.

ANNEXURE -IV

REVERSE AUCTION PROCESS COMPLIANCE

(To be incorporated along with the bid document).

(To be submitted on letter head of the bidding company with sign and stamp and along with technical bid)

To,

The General Manager (Elect.),
EHT (O&M) Circle, OPTCL, Berhampur.

Sub: Agreement to the Process related Terms & Conditions for e-Reverse Auction.

Dear Sir,

This letter is to confirm that:

- The undersigned is authorized representative of the company.
- We have studied the Commercial Terms and the Business rules governing the Reverse Auction as mentioned in your tender and confirm our agreement to that.
- We also confirm that we have gone through the auction manual and have understood the functionality of the same thoroughly.
- We, hereby, confirm that we will honour the Bids placed by us during the tendering/ e-Reverse auction process as called as e-RA.
- We also confirm that we will accept our Rank / Position that will be displayed when the Bidding Time for the Online Reverse Auction is over.

With regards,

Signature with Designation with company seal